



VPD-142(N)-H/143(N)-H Quick Start

v1.1, Jan. 2019

What's in the box?

Thanks for buying ICPDAS VPD-142(N)-H/143(N)-H device. This shipping package contains the following items:

VPD-142N-H VPD-142-H
VPD-143N-H VPD-143-H



VPD-142(N)-H/143(N)-H x 1



Quick Start x 1 (This Document)



2.4 mm Screw Driver x 1



Panel Mounting kit x 1

Related Information

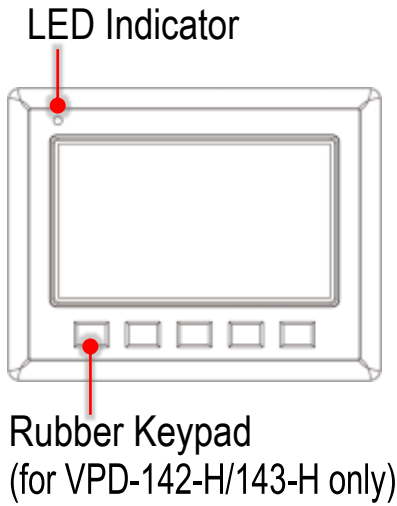
If you are new to VPD-142(N)-H/143(N)-H, please read the **“Chapter 3. Getting Started” of the TouchPAD Hardware User Manual** for detailed information about install the free development tool – HMIWorks and how to create your first project.

- Documents, such as the User Manuals, the API References, etc.: <http://ftp.icpdas.com/pub/cd/touchpad/document/>
- Free Development Software, HMIWorks v2.10.10 or above: <http://ftp.icpdas.com/pub/cd/touchpad/setup/>

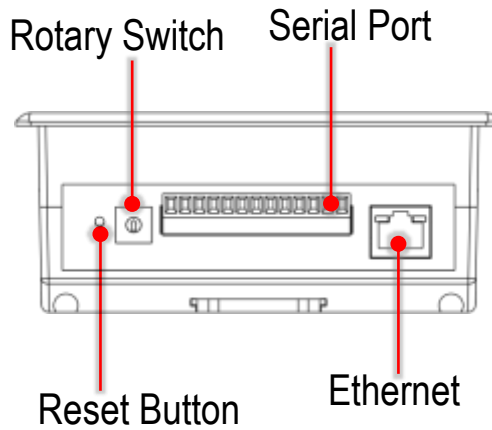
If you have any questions, please feel free to contact us via email.

1 Appearance

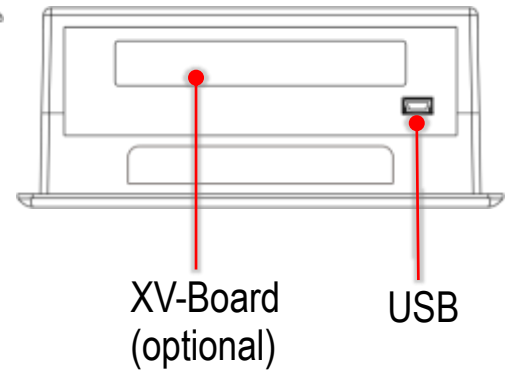
Front View



Bottom View

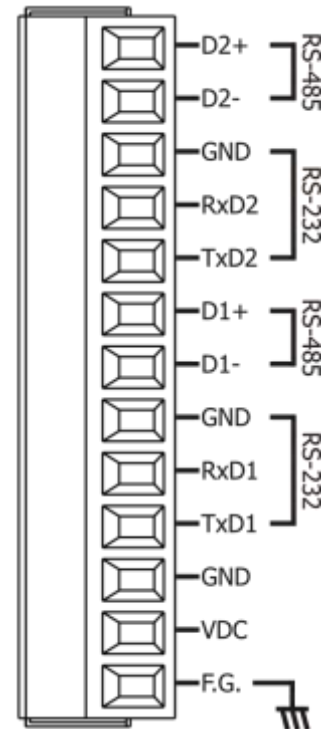


Top View




2 Pin Assignments

Pin	Description
D2+	The positive data line of the RS-485 network
D2-	The negative data line of the RS-485 network
GND	Ground pin
RxD2	The pin of received data of the RS-232
TxD2	The pin of transmitted data of the RS-232
D1+	The positive data line of the RS-485 network
D1-	The negative data line of the RS-485 network
GND	Ground pin
RxD1	The pin of received data of the RS-232
TxD1	The pin of transmitted data of the RS-232
GND	Connected to the power supply's ground pin
VDC	DC input Voltage (range: +12 V ~ +48 V)
F.G.	Frame Ground. F.G. is connected to the inside EMI or ESD suppression circuits. Make sure that F.G. is connected to the Earth




3 Rotary Switch & Default Settings

The definition of the rotary switch (VPD-142(N)-H):

	No	Mode	Description
	0	Run Only	Run the program. (Default)
	9	USB Force Update	Update a new application to the TouchPAD device through USB.

The definition of the rotary switch (VPD-143(N)-H):

	No	Mode	Description
	0	Run & Update (Ethernet)	This is a special run mode which is used in the development stage. The TouchPAD device can be updated by a PC from the remote side through Ethernet. (Default)
	1	Ethernet Force Update	While the application run on the TouchPAD device seriously crashes, use this mode to update a new application to the TouchPAD device through Ethernet.
	2	Run Only	Run the program.
	9	USB Force Update	Update a new application to the TouchPAD device through USB.

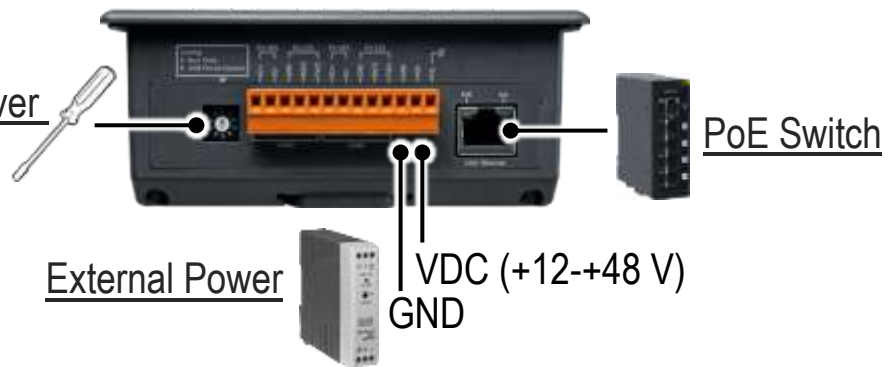
Network Default Settings (VPD-143(N)-H)

IP Address	192.168.255.1
Subnet Mask	255.255.0.0
Gateway	192.168.0.1

4 First Use of the VPD 4.3” H Series

1. Connect wires as the below figure or prepare an Ethernet cable which will be used to supply power through PoE if there's a RJ-45 Ethernet port on it. And set the rotary switch to 0 (At this point, the power is not yet supplied).

Use a flat-head screwdriver to set rotary switch



2. Supply power to the VPD-142(N)-H/143(N)-H, wait for several seconds and then you can see the default program run on it.

3. Try to touch on the icons on the bottom-right corner of the screen of the VPD-142(N)-H/143(N)-H and you can find that VPD-142(N)-H/143(N)-H switches to the setting pages.

5 Hardware Installation

The panel mounting of VPD-142(N)-H/143(N)-H

Insert the panel mounting clips into the upper and lower ventilation holes.

Screw the panel mounting clips to the panel.
(Mounting Screw: M4 x 30L)



The DIN-rail Mounting of VPD-142(N)-H/143(N)-H





VPD-142(N)-H/143(N)-H 快速入門指南

v1.1, 2019 年 1 月

檢查配件

感謝您購買泓格的 VPD-142(N)-H/143(N)-H 產品。產品包裝內應包含下列配件：

VPD-142N-H VPD-142-H
VPD-143N-H VPD-143-H



VPD-142(N)-H/143(N)-H x 1



產品須知 x 1 (本文件)



24 mm 螺絲刀 x 1



面板安裝組件 x 1

參考資訊

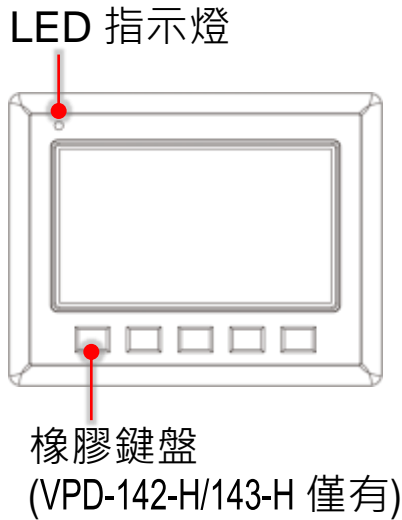
如果您是第一次使用 VPD-142(N)-H/143(N)-H，請參閱 **TouchPAD 硬體使用手冊** 的“**第 3 章 啟動 TouchPAD**”來了解如何安裝免費的開發軟體 HMIWorks 並建立第一個專案以及更多詳細的相關資訊。

- 相關文件，如使用手冊、應用程式介面指南(API Reference) 等：
<http://ftp.icpdas.com/pub/cd/touchpad/document/>
- 免費開發軟體，HMIWorks 版本 2.10.10 或以上版本：
<http://ftp.icpdas.com/pub/cd/touchpad/setup/>

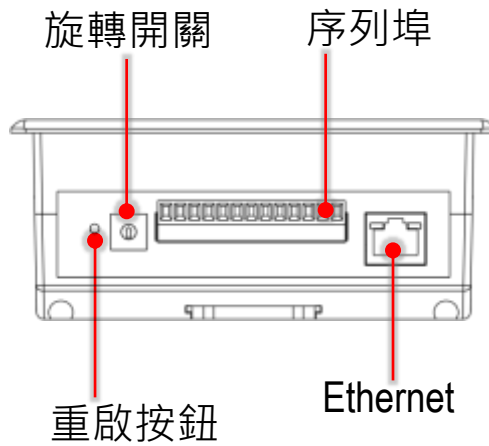
如有任何問題歡迎使用 E-mail 聯繫我們，我們將會為您提供完善的諮詢服務。

1 外觀

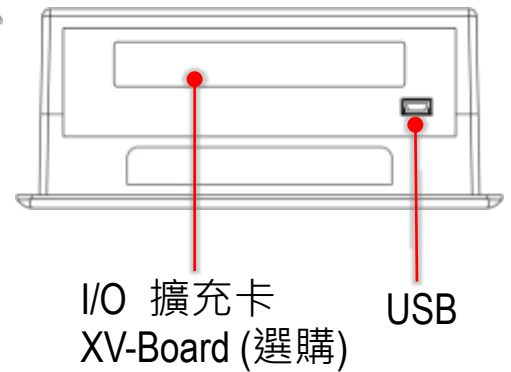
前配置圖



下配置圖

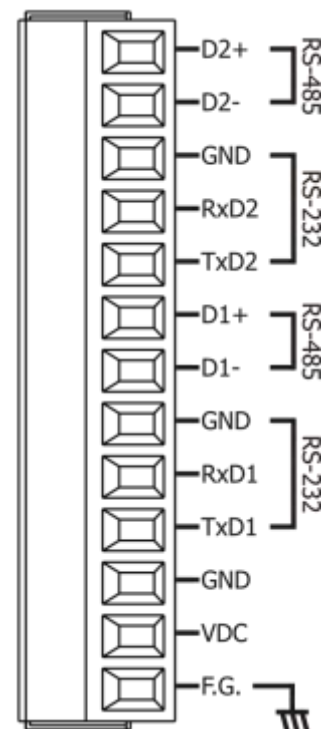


上配置圖



2 腳位定義

Pin	說明
D2+	RS-485 網路的正訊號線
D2-	RS-485 網路的負訊號線
GND	接地端
RxD2	RS-232 的接收資料腳位
TxD2	RS-232 的傳送資料腳位
D1+	RS-485 網路的正訊號線
D1-	RS-485 網路的負訊號線
GND	接地端
RxD1	RS-232 的接收資料腳位
TxD1	RS-232 的傳送資料腳位
GND	連到電源的接地端
VDC	直流電壓輸入 (範圍：+12 V ~ +48 V)
F.G.	機架接地，F.G. (連接到內部的 EMI 或 ESD 保護電路)，請接到大地



3 旋轉開關及出廠預設值

旋轉開關的配置模式定義 (VPD-142(N)-H):

	No	模式	說明
	0	Run Only	執行程式。(出廠預設)
	9	USB Force Update	透過 USB 更新程式。

旋轉開關的配置模式定義 (VPD-143(N)-H):

	No	模式	說明
	0	Run & Update (Ethernet)	執行/更新程式，用於程式開發階段 (能執行程式，也能進行更新)。(出廠預設)
	1	Ethernet Force Update	強制更新，當 TouchPAD 上的程式嚴重毀損時可用此模式透過 Ethernet 更新。
	2	Run Only	執行程式。
	9	USB Force Update	透過 USB 更新程式。

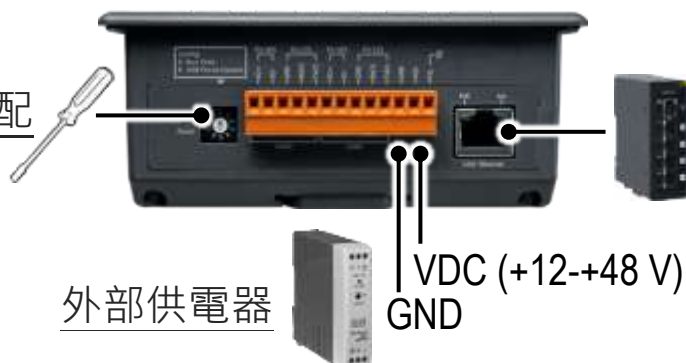
網路設定出廠預設如下表 (VPD-143(N)-H):

IP Address	192.168.255.1
Subnet Mask	255.255.0.0
Gateway	192.168.0.1

4 第一次使用 VPD 4.3” H 系列

1. 如左圖所示，將電源和接地線連接完成。或是有 RJ-45 的乙太網路接孔，可以準備一條網路線，透過乙太網路供電 (PoE)。然後將旋轉開關 (Rotary Switch) 轉到 0 (此時尚未供電)。

使用一字起子來配置旋轉開關



乙太網路供電

外部供電器

VDC (+12-+48 V)
GND



2. 開始供電給 VPD-142(N)-H/143(N)-H，等待約數秒的開機時間，接著可以看到 VPD-142(N)-H/143(N)-H 執行出貨預附的程式如左圖所示。

3. 試著按一下 VPD-142(N)-H/143(N)-H 螢幕上面的圖示，VPD-142(N)-H/143(N)-H 會切到其他的頁面。

5 硬體安裝

VPD-142(N)-H/143(N)-H 的面板安裝 (Panel Mounting)

於上下方的通風口，插入面板固定鋁夾

使用 M4 x 30L 螺絲釘，鎖緊固定面板及鋁夾



VPD-142(N)-H/143(N)-H 導軌安裝 (DIN-rail Mounting)

